

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Patent Application of

SHIMADA

Atty. Ref.: 914-132

Serial No. Unknown

Group:

Filed: June 7, 2001

Examiner:

For: DIGITAL INFORMATION EMBEDDING DEVICE EMBEDDING DIGITAL WATERMARK
INFORMATION IN EXACT DIGITAL CONTENT, COMPUTER-READABLE RECORDING
MEDIUM HAVING DIGITAL INFORMATION EMBEDDING PROGRAM RECORDED
THEREIN, AND METHOD OF EMBEDDING DIGITAL INFORMATION

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June 7, 2001

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

As suggested by 37 C.F.R. 1.97, the undersigned attorney brings to the attention of the Patent and Trademark Office the references listed on the attached form PTO-1449, a copy of each of which is enclosed. This is not to be construed as a representation that a search has been made or that no better prior art exists, or that a reference is relevant merely because cited.

Nikkei Electronics, No. 683, pp. 100-107 describes a digital watermark technique. In a digital content, including audio and video data, there exists a portion which is not important to human senses, i.e., a redundant portion. In the technique such a redundant portion is noted and information such as copyright is embedded on a content in the form of noise.


Japanese Patent Laying-Open No. 11-284836 discloses a method using a medical filter to determine a degree of information to be embedded. This method provides noise removal and in addition thereto high-precision edge enhancement to determine a feature value variation range perceptible through human senses. In this method, however, a content is subjected to noise removal and edge enhancement successively and thereafter has digital watermark information embedded therein, which involves a complicated process, requiring a relatively long period of time to embed digital watermark information.

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The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

Respectfully submitted,

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